

# The Macdonald Journal

APRIL 1981

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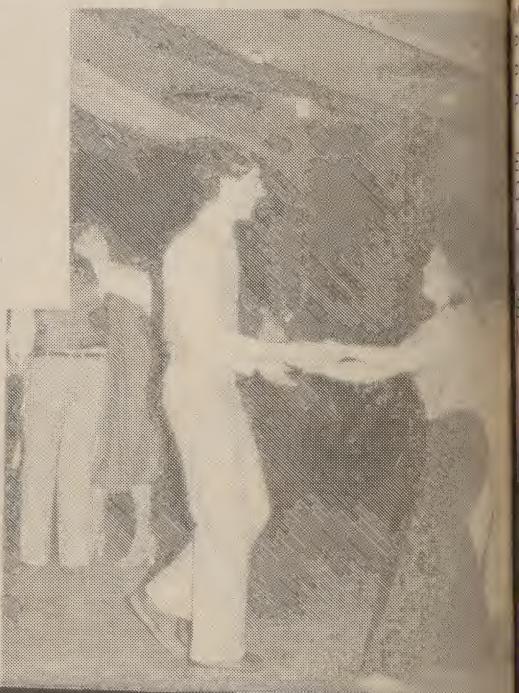
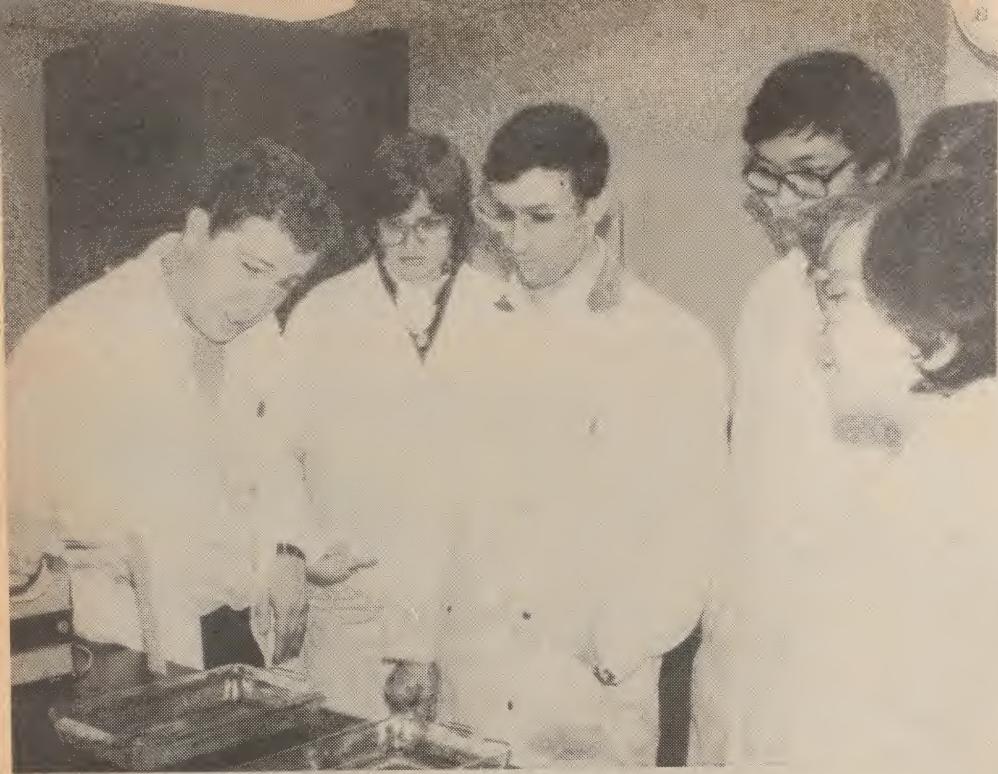
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## MACDONALD: AN ENVIRONMENT FOR GROWTH



# The Macdonald Journal

APRIL 1981

Volume 42, No. 4  
April, 1981

## Editorial Board

airman: Dr. Jean David  
ss Hazel M. Clarke  
ofessor R. Kok  
ofessor J.D. MacArthur  
ofessor Martin van Lierop

itor: Hazel M. Clarke  
ntributing Editor:  
uis Houde,  
ormation Division,  
nistry of Agriculture of Quebec  
iness Manager:  
rtin van Lierop

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Cover: A partial view of Macdonald showing the main Campus, the Farm, and the Morgan Arboretum. Photo by Giles Rivest.

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## Journal Jottings

om the Dean's Editorial on the next page to Professor Gerols's article on page 13 some 10 different faculty involved staff members have contributed articles and material specifically at the younger members of our Journal family of editors but, I think, of interest to all who would like to know a little more about the Macdonald Campus of McGill University. This special issue poses the question "Why choose Macdonald when considering university?" and answers some of the questions potential students may have about Mac, its programs, facilities, extra curricular activities, and the career possibilities.

Regardless of the country we live in, language we speak, the beliefs we hold, and the work we do, we all have one thing in common — we all have too much, some

just enough, and, unfortunately, many wonder where the next meal is coming from. Food is a universal common concern to us all whether we live to eat or eat to live. Many say grace at the beginning of the meal thanking God for the food they eat; I think that every time we open the frig door or reach up to the cupboard shelf we should thank the farmer for making it possible to have that food within arm's reach. With that thought in mind, this issue deals largely with the areas of interest and concern in Agriculture and Food Science that are found beyond the farm gate. It is also pointed out that there are excellent career opportunities in these areas or, indeed, many graduates find themselves in fields far remote from their basic areas of study.

What do present students have to add to the comments found in these pages? A Maritimer told me that he

thinks Mac is just great. Some of his friends went elsewhere. They're sorry! Another, from the Townships, said that she liked it here because it's small enough to get to know your classmates and your professors and all the production courses are very practical, the prime example being the poultry production course where you have to raise from 120 to 150 broilers in seven weeks. An eastern Ontario student also appreciated the small size. One student, who is graduating this year, listed the best things about Macdonald as being the people, the parties, the Woodsmen Association, the Livestock Club, the Quebec Young Farmers Federation, and studying. I assume this is not necessarily in the order of preference.

**Hazel M. Clarke**

# Editorial

## The University: An Environment for Growth

In spite of the intervening years, it is still possible for me to recall the feelings of frustration and inadequacy that I experienced during my last year of high school because I had no well-defined plan for the life that loomed large ahead of me. Now, years later, I am well aware of very similar feelings being experienced by my son during his CEGEP program. My general observation is that very few of our young people are in the fortunate position of knowing exactly what they want to do with their lives. Therefore, the paragraphs that follow are directed to those young adults who are in the process of self-analysis and subsequent decision-making in respect to their future.

During an era when vocational and technological training opportunities are proliferating rapidly, with accompanying increasing job opportunities, it is not surprising that more and more we hear the question "Why should I even consider going to university?" It is not easy to provide an answer that will apply to everyone and, when a general reply is sought, it frequently sounds pompous. In spite of this danger, I shall attempt a general answer.

Let us consider growth for a moment. In humans, the total growth of the body is genetically determined and environmentally mediated; in other words, if we provide the ideal environment, the body will grow to its full genetic potential and then stop. The growth of the *mind*, however, is a different matter — it has no upper genetic limits, although the nature and direction of its growth may have a genetic base. The growth of the mind should be continuous and is extremely dependent upon environment.

Therefore, my answer to the question "Why should I go to university?" is that the university provides an excellent environment for the growth of the mind. Certainly not the only environment but, in my opinion, the best one available.

Hence, if one provides the best environment for the growth of the mind and if one takes maximum advantage of that environment, the likelihood of making meaningful contributions over a lifetime to the well-being of mankind is optimized.

### Dr. L. E. Lloyd

A native of St. Lin, Quebec, Dr. Lewis E. Lloyd was raised on his parents' dairy farm and attended elementary school in New Glasgow and then Lachute High School. He chose to continue his studies at Macdonald although he had no clear-cut idea of what he wanted to do at the time. He accepted his parents suggestion to at least find out "what scientific agriculture was all about."

Dr. Lloyd received his B.Sc. in Agriculture at Macdonald in 1948 and went on to earn his M.Sc. and Ph.D. here as well. Dr. Lloyd joined the Faculty of Agriculture in 1953, eventually becoming Chairman of the Department of Animal Science, a post he held for seven years. While at Macdonald he taught and carried out research in nutrition and co-authored the textbook "Fundamentals of Nutrition" with Dr. Earle E. Crampton. Dr. Lloyd next joined the staff of the University of Manitoba where he was Dean of the Faculty of Home Economics until he accepted the appointment as Dean of the Faculty of Agriculture and Vice Principal of Macdonald Campus on June 1, 1977. Lewis Lloyd sums up his career to date: "I first came to Macdonald as a student exactly 40 years ago this coming fall. Although my initial reasons for selecting agriculture as a profession were not particularly sound, I have not had one moment of regret over my original decision."

I believe it should be emphasized that a university education is not a guarantee to success in life — it merely increases the potential for success. The degree to which success is achieved lies primarily with each individual.

If the young person has made the decision to attend university, it is then a question of what is his/her

principal area of interest, and a decision on area of interest is frequently mediated by the prospects of eventual career opportunities. To those young people who are becoming increasingly conscious of the acute problems associated with the world food supply, I suggest a critical examination of the varied career possibilities in Agriculture and Food Science.

The central concern of our profession is with food — with its production, its processing and marketing and its eventual consumption by the human population. Whether an individual becomes involved in plant breeding, animal nutrition, food science, agricultural economics, entomology, dietetics, or any other of our disciplines, the bottom line is always food and the need to produce more food of higher nutritional value for the feeding of an increasing world population.

Because we are dealing with food either directly or indirectly, and because of the universal need for food, employment opportunities for our graduates are strong and will remain so in most areas for which we provide training.

Having made the decision to go to university and to become involved with some aspect of Agriculture and Food Science, the final decision is where to go in order to prepare for professional career in this area. In other parts of this edition of the Journal you will find information on what is available on the Macdonald Campus of McGill University. Over the years of its existence, thousands of students have come to Macdonald, have enjoyed their time here, have graduated, and made positive contributions during their professional lives. Most of our graduates can provide us with assurance of a high degree of personal gratification with their choice of career and way of life.

We hope you will give serious consideration to becoming a member of the ever-growing "Macdonald family."

**Dr. L. E. Lloyd,  
Dean, Faculty of Agriculture and  
Vice Principal of Macdonald Campus.**

# WHY MACDONALD

by Stephen Olive  
Registrar

Dr. Lloyd, at the close of his remarks in the Editorial on page 2, expressed the hope that prospective agriculture students give serious consideration to becoming a member of "Macdonald Family." I would like to echo this hope and also explain why you should study Agriculture or Food Science at Macdonald.

There are many ways to judge and ultimately choose a university. Of prime importance are the talents of its faculty, the level of its scholarship, and the quality of its resources.

ince its founding 76 years ago in 1905, Mac has consistently attracted the cream of the teaching group. Over the years these men and women have contributed their special expertise to agriculture and food science in general and Macdonald in particular. Faculty members come from the four corners of the globe as well as from diverse length and breadth of Canada. The professors at Macdonald are leaders in their fields. They divide their time equally between their research work and teaching. At Mac you work with your professors. Twenty-five per cent of the classes number fewer than 30 students, and labs and seminars normally have ten fewer students.

The level of scholarship at Macdonald is second to none. The number of graduates who go on to positions of responsibility and authority can be seen elsewhere in this issue of The Journal.

Other indication of the quality of the programs at Macdonald is the level to which graduates, industry, and private foundations donate to the Faculty Scholarship and Bursary

Fund on an ongoing basis. Along with the rest of McGill, Macdonald is one of the most financially well endowed institutions from the point of view of support for students in the program.

There is no doubt that Macdonald is one of the most well endowed campuses for the study of Agriculture and Food Science in Canada. In addition to 200 acres of park-like surroundings for the academic buildings, the faculty boasts a 640-acre experimental farm which represents a large variety of the

facilities of the faculty. The modern lecture rooms and amphitheatres along with equally modern laboratories are complemented by a professional agriculture and food science library, housing some 97,000 volumes made up of 80,000 books and journals, and 17,000 volumes of government documents. You will find information about the athletic facilities in other articles in this special issue of The Macdonald Journal.

So much for the teaching and physical resources. What about the

## ADMISSION REQUIREMENTS

Students who enroll in the Faculty of Agriculture and School of Food Science are required to complete a minimum of 90 credits or three years of study to obtain a degree if they have graduated from a Quebec CEGEP with a Diploma of Collegial Studies with the appropriate science profile.

There are specific pre-university requirements for science programs. CEGEP students wishing to enter a three-year B.Sc. program are expected to have completed the pre-requisite courses outlined in "Structures d'accueil."

Students from Canadian high school programs, other than Ontario, must complete one year in a four-year science program prior to applying for admission to Macdonald. During this one year, prerequisite subjects (biology, chemistry, mathematics, physics) are taken.

Students from Ontario Grade 13 with appropriate science courses may apply directly to Macdonald.

A student must meet with a faculty adviser before registration each year to choose courses and draw up a study plan form. A major is chosen at the beginning of a program.

soils of the Ottawa-St. Lawrence Valley Lowland. There is also a 540-acre experimental woodlot, the Morgan Arboretum, as part of the total faculty land space.

The focal point of the campus is the recently built Macdonald-Stewart Building which, along with the Raymond and Barton Buildings, houses the major part of the teaching

important people? The students. It goes without saying that without students, no university. The students at Mac come from all walks of life and from all parts of the world. They all share a common interest in food. Whether this interest is in production, processing, research, storage, or whatever, there is a common goal.

This common interest is inspired by different things in different people. Some look at the world food situation and feel a need to become involved at some level. Others are interested in a professional degree and all the benefits that are associated with it. Some of these benefits are in excellent job opportunities, a professional standing in the community, better than average salary possibilities, not to mention the flexibility that a Bachelor of Science degree offers.

Some people, given the nation-wide concern for pollution problems, are concentrating much of their energy into the areas of organic farming, renewable resources, environmental conservation, and consumer awareness and their application in today's world. There are many who feel that this is the area of the future.

Macdonald is a part of McGill, but we don't suffer from the same "bigness" as the rest of the University. Mac is located at Ste. Anne, about 20 miles west of the main McGill Campus in Montreal. There are about 900 undergraduate students on the Mac Campus and, as a result, most people have an opportunity to know everyone else at least by sight. All the benefits of a large school: excellent library facilities, inter-collegiate sports and numerous clubs, to mention a few, are available on the Montreal Campus, while all the benefits of a small school: intimacy, friendly atmosphere, recognition by staff and students alike, to touch on the highlights, are on the Ste. Anne Campus. The best of both worlds!

What about what Macdonald is? If we are not the best Agriculture and Food Science Faculty in Canada, we are pushing the fellow at the top very hard. We offer programs that attract students from all over the world. If you are not good, you don't do that.

We believe that there is a need for food professionals today and that that need will continue in the years to come. Our philosophy at Mac is to encourage as many people as possible to study Agriculture or Food Science. Our standards are high and the quality of our students keeps them that way. What are the

programs that Macdonald offers? Specifics are dealt with in other articles in the magazine. In general terms, we at Macdonald can offer you professional degrees leading to membership in four professional associations. There are the Ordre des Agronomes, Ordre des Diététistes, Ordre des Ingénieurs, and Ordre des Chimistes. As mentioned earlier, many people consider professional association with some group almost essential in today's world.

We at Mac are the Faculty of Agriculture and School of Food Science of McGill University. We are the educational centerpiece of the most primary of all primary industries — food production. There are some of us who are farmers, there are some of us who are environmentalists, there are some of us who are consumer experts. There are some of us who are scientists in our chosen field. What I'm really trying to say is that Agriculture and Food Science don't only deal with

mud and large commercial feedings operations. We have both those elements, and the two-year Diploma in Agriculture program offers the right person a program in farm management and operation second to none.

We suffer here at Mac from a disease called the "used to be's." People come to me and say, Food Science "used to be" Home Economics. Oh yes, we have that too for future teachers, but that's not all it is any more. People also say Agriculture "used to be" farming. It still is, but like everything else, Agriculture and Food Science have both grown, changed and developed within the technological age we live in. Who do you think developed the space age foods the astronauts eat?

Come and ask us about your future. Come and meet the "Macdonald Family." I think after you've met you'll want to join us. Come and take a step into the rest of your life.

## STUDENT SERVICES

Several student services are available on the Macdonald Campus. Perhaps the one of most concern to the student is the Health Service. It provides information, counselling, and assistance in general and mental health through testing and health education programs. The Macdonald clinic is a joint effort with John Abbott College and is located in the Hertzberg Building. Students may also avail themselves of the McGill clinic in the Powell Student Services building on the downtown Campus.

Athletics are very popular on the Macdonald Campus. Some 60 intramural and instructional programs are in operation, ranging from broomball to scuba diving to basketball.

A Financial Aid office is maintained on the campus through the Associate Dean, Student Affairs. It processes applications for government and university loans.

An important aspect of services is the Student Placement and Career Counselling Office which brings together graduating students and potential employers. In addition to permanent employment, the service assists undergraduates in finding summer employment and part-time work.

Professional counselling is available to assist students with personal issues, career choices, decision-making, and academic problems.

Finally, housing accommodation in the vicinity of the Campus is actively sought through the Off-Campus Housing Service.

**Dr. Jean David**  
**Associate Dean, Student Affairs and Public Relations**

# MAC GRADUATES

## THROUGHOUT THE WORLD

by Tom Thompson  
Director of Alumni Relations  
Macdonald Branch of  
the Graduates' Society  
of McGill University

### What do the Presidents of Redpath Sugars Ltd., Genstar Chemicals (Montreal) and Suncor Oil Inc., have in common?

They are all Macdonald graduates! Murray McEwen, BSc.Agr. '53, is President of Redpath Sugars Ltd., Roy A. Parkes, BSc.Agr. '56, is President of Genstar Chemicals (Montreal), and Ross A. Hennigar, BSc.Agr. '51, is President of the newly created Suncor (Oil) Inc., Canada's fifth largest integrated oil company. The setting of the wooded and rolling lawns and quiet surroundings of the Ste. Anne de Bellevue campus appears to have been just as effective a springboard for corporate management as for crop development and cooperatives. Macdonald graduates are hard at work in more than 60 countries of the world, in 37 States in the U.S., and in every province and territory of Canada. Their interests and expertise have attracted them to important roles in the field of agriculture as evidenced by the activities and good work of the Deputy Minister of Agriculture, Gaetan Lussier, MSc.Agr. '65, DSc. 79, as well as four regional Agriculture Canada Directors who are alumni, plus H. Raymond Scovil, BSc.Agr. '49, Deputy Minister of Agriculture for New Brunswick and Arnold A. Rovers, BSc.Agr. '67, Assistant Deputy Minister of

Agriculture for Nova Scotia, and many others whose work is part of the Canadian agriculture scene.

The laboratories on the campus have nurtured research specialists in a number of areas. To name a few: Donald S. Layne, BSc.Agr. '53, MSc.Agr. '55, Ph.D. '57, with the Connaught Labs in Toronto, Dr. Donald A. Young, BSc.Agr. '52, with the government research station in Fredericton, Dr. Richard F. Welton, BSc.Agr. '54, MSc.Agr. '69, as a director of quality control with Maple Leaf Mills in Toronto, and Cleve A. I. Goring, BSc.Agr. '46, is director of plant science and development with Dow Chemicals, Allan E. Crawford, BSc.Agr. '50, is President of Griffith Labs in Toronto, and a recent graduate, Miss Carol St. Charles, BSc.Agr. '77, MSc.Agr. '79, is President of Dr. J. O. Lambert & Co., a pharmaceutical firm in Montreal.

The difficulties of making ends meet in paying tuition, room and board and still having time to occasionally stray off the Macdonald Campus has endowed many an alumnus with a quick eye for figures and good investments. J. William Ritchie, BSc.Agr. '51, for many years the whip for his class reunions and also Regional Vice-President for the Graduates' Society of McGill University for the Maritimes, is President of Scotia Bond, a Halifax based investment company. A classmate of Bill Ritchie's is Geoffrey C. Noble, who is an investment counsellor in Toronto, and from the class one year later is Owen M. Ness, BSc.Agr. '52, with Alcan in the U.K., G. Roger Otley, BSc.Agr. '59, Vice-President of Royal Trust, and Arthur Abbey, BSc.Agr. '51, is

Vice-President of Fitzpatrick Construction of Montreal.

There is a surprising variety of business areas involving graduates such as James H. Wilding, BSc.Agr. '54, an insurance broker, Peter A. Thompson, BSc.Agr. '52, Dip.Man.'67, of Imasco, Donald A. Smith, BSc.Agr. '60, a director of the Bank of Canada, and William H. J. Cameron, BSc.Agr. '47, Vice-President of personnel for Cement Lafarge.

Although Macdonald graduates have scattered world-wide in their pursuit of interests in agriculture, food science, or in careers apparently unrelated, they have all built upon their early training at Macdonald. Included in this distribution of graduates around the world are David Boyce, BSc.Agr. '51, with General Foods in Paris, France, J. Peter Chaplin, BSc.Agr. '53, of Kraft Foods in Memphis, U.S., Richard Evans, BSc.Agr. '55, with Dupont in Delaware, Cleve A. I. Goring, BSc.Agr. '46, in Midland, Minnesota, John H. Grisdale, BSc.Agr. '49, Vice-President of Campbell's Soup in Camden, New Jersey, and Dr. W. David Hopper, BSc.Agr. '50, Vice-President of the World Bank in Washington, D.C. And, of course, the envy of all Montrealers, particularly during the winter months is Matthew L. McMahon, BSc.Agr. '45, President of McMahon Associates in Pasadena, California. And if this hasn't given you an adequate indication of the rich diversity of talent of Macdonald graduates, remember that as a Macdonald graduate you could well be the Vice-Principal of Macdonald and Dean of the Faculty of Agriculture!

# Recognizing Academic Achievement and Providing Financial Assistance

by Professor R.S. Broughton,  
Department of Agricultural  
Engineering and Chairman,  
Scholarships Committee

A good variety of scholarships, bursaries, prizes, and loans are available to students in the Faculty of Agriculture and School of Food Science at the Macdonald Campus. These are intended to recognize academic accomplishment or to provide financial assistance to deserving students. These scholarships, bursaries, and prizes provide money to help competent students proceed toward their study goals without financial distress.

## Entrance Scholarships

Thanks to the Macdonald Branch of the McGill Graduates' Society we have five \$1,000 scholarships for new students entering the degree programs. Other entrance scholarships of \$500 value are provided by McGill University Entrance Scholarship Funds and the Eliza M. Jones Fund. Students with high grades should apply for a scholarship when they apply for admission to Macdonald.

## Scholarships for the Top Students in Courses

Approximately 10 per cent of the students in courses are awarded scholarships for high academic achievement. The money for these scholarships has been provided by former graduates, companies interested in hiring graduates, and benefactors of the University who are interested in helping young people prepare themselves for a career which requires study at the Macdonald Campus. Among the scholarships and scholastic awards available for ongoing students are: Eliza M. Jones Scholarships with value from \$300 to \$700; Ralston Purina Scholarship — \$750;



Hubbard Farm Scholarship — \$750; Stewart Brown Awards — \$750; J.W. McConnell Awards — \$500; Modern Drainage System Prize — \$500; Hollis J.M. Fiske Scholarship — \$500; Lynden Laird System Awards — \$500.

The scholarships and prizes for ongoing students are awarded by the Scholarships Committee on the basis of the academic achievements of the students.

## Bursaries

Students at Macdonald are eligible to apply for bursaries from the Quebec Ministry of Education or the Ministry of Education of their home province. The Stewart Brown Bursaries have recently been established by generous donation from Mr. and Mrs. Stewart Brown; these bursaries are intended for Canadian or landed immigrant students who show sincerity of purpose in agriculture and require financial help to study. These bursaries are available to new students entering Macdonald who may not have grades high enough to qualify for an entrance scholarship and to students who have completed one or more years in their option. They



Left: Kevin Sibley being presented with an Entrance Scholarship by Dean Lloyd. Above: Professor R.S. Broughton presenting an Award to Patricia Vine at the 1980 Scholastic Awards Banquet.

may range from \$450 to \$1,500, depending on need.

## Loans

Since there is never enough scholarship and bursary money available to meet all the financial needs of students, some revolving loan funds have been established. The major sources of loan funds are: the Ministries of Education of the provinces from which students come, the Macdonald Branch of the McGill Graduates' Society Loan fund, and the Kiwanis Club of Montreal Loan Fund. These loan funds provide money at a low interest charge. Students pay the loans back from summer earnings or after graduation. This pay-back provides the revolving funds which allows us to continue to aid future groups of students.

## General

Students are expected to assess their own financial situations and to meet their financial needs by money from several sources including their own earnings, donations from parents, relatives and guardians, by winning scholarships for high achievement, and by applying for bursaries and loans. Details of Scholastic Awards are given in the Macdonald Announcement.

# THE STUDENTS' SOCIETY

by Jean Vauthier  
Manager  
Centennial Centre

Student self-government in some form has existed at Macdonald from its beginning. Macdonald is small and the Clan is closely knit. It is the combined contribution of many in both academic and extra-curricular endeavours that make Macdonald successful. In all matters concerning student activities, staff prefer to help — but not to direct — with the student officers debating the issues and making the decisions.

If one compares the degree of student self-government at Macdonald with that at other universities and colleges, one must be impressed with the amount of authority and responsibility that has been delegated by the staff to the elected student officers.

Self-government is both a responsibility and a challenge and it is up to students to maintain the standard and the fine tradition that has been established. This can only be done with the students' cooperation and participation.

The Macdonald Campus Students' Society is an association of students formed to exercise control of the student activities subject to the University Statutes and to the jurisdiction of the Senate. Every student registered at Macdonald, paying activity fees and student fees, is a member of the Society, whose Executive Officers are known as the Students' Council.

Most student organizations are centralized under the direction of the Students' Council, others are affiliated with it. Students are encouraged to take an active role in these organizations. Since the community is small, each student has an opportunity to play a large and ef-

fective role and the time spent out of the lecture rooms and laboratories can also be an important learning experience.

The Students' Council also acts as the voice of the student body on all matters affecting the entire student body. Students are also encouraged to take an active role in the governing and the decision making bodies of Macdonald, most of which have student representation.

The first social activity in the academic year is the "Gathering of the Clan" which lasts for the entire first week. Tours, suppers, movies, highland games, a corn and porkburger roast, a square dance, a greaser dance, and happy hours at the Ceilidh (student bar) are organized for the Freshmen — a great way to get to know one another.

The focal point for many of the students' activities is the Centennial Centre or, as it is more widely known, the CC. The building is administered by a Committee consisting of six students, one staff member, the Ceilidh Manager, and the CC Manager. The CC is the headquarters for the Students' Council and for all student clubs and organizations. Besides housing the snack bar, the bookstore, the Counsellor's office, and the Diploma Program offices, the CC also offers many facilities for student activities: meeting rooms, ballroom, the student lounge, the V.I.P. lounge and, finally, a student-run bar, the Ceilidh.

The various student activities are organized for the students' pleasure and to suit the students' interests. Active participation in those parts of the program that suit a particular

## CLUBS AND ORGANIZATIONS

Agricultural Undergraduate Society  
Food Science Undergraduate Society  
Postgraduate Students' Society  
Agricultural Economics Club  
Agricultural Engineering Club  
Junior Food Service Executive Association  
Arab Students' Association  
Caribbean Students' Association  
International Students' Association  
Muslim Students' Association  
Coop Food Marketing  
Crossroads International

CUSO Macdonald  
Ecolifestyles  
Livestock Club  
Photography Society  
Wildlife Society  
Woodsmen Association  
Macdonald Royal  
Winter Carnival Committee  
The Harvest (Student news-paper)  
The Clan (Macdonald Yearbook)

Winter Carnival and the College Royal are two other major events taking place during the year. Carnival is the time for fun and frolic and Royal is Macdonald's Open House which includes the Livestock Show, displays, and booths.

student's interest as well as the student's support in making certain that these activities are conducted in a responsible manner are essential to their success and to the continuation of student self-government.

# ATHLETIC OFFERINGS

**by W.R. Ellyett  
Director,  
Athletic Department**

It is the responsibility of the Macdonald Athletic Department to offer its students a program of activities that will enable them to enjoy their leisure time. The primary purpose of any student on the Macdonald Campus is to obtain a degree or diploma, but it is also just as important that he or she has the opportunity to participate and grow in the experience obtained outside the classroom.

Athletics is one of those areas.

The Macdonald Athletics Department offers its students and staff over 70 programs in which they may participate. The programs are divided into four areas; inter-collegiate, intramural, recreational, and instructional. A short summary of each program will show what is available to the student during his or her stay at the Macdonald Campus.

## Intercollegiate

The intercollegiate program offers students the chance to participate against other universities in a variety of sports. Macdonald is a member of the Quebec University Athletic Association which includes such schools as Bishop's, Sherbrooke, Laval, and McGill to name a few of the 12 members. The activities available are rugby, broomball, cross country, woodsmen, and golf. Due to the limited size of our student body, large team sports are not available. But for any Macdonald student interested in hockey, football, or basketball, he or she is permitted to try out for the Varsity team at McGill.

## Intramural

The intramural program provides a major source of extra-curricular activity and exercise for the student body at the campus. The program is quite diverse, offering activities in 15 different areas of sport.

There are two systems of competition; an Open League, where students group according to their own choice and an Interclass League, where students are automatically grouped according to academic class — U1, U2, U3, Dips, Post Grads, and Staff. Both systems are felt necessary to accommodate the different groups which exist at the campus; departments, classes, geographically orientated groups, intercollegiate groups, and others.

The Interclass competition is a merit system organized towards a common goal, the Interclass Shield. The winner of the shield can claim class supremacy for that year. Some of the sports available are football,

hockey, broomball, volleyball, basketball, tennis and baseball.

## Recreational

Macdonald offers over 15 different types of recreational activities to its students and staff. Our facilities include: the Stewart Complex which houses a pool, gymnasium, saunas, weight room, and changing areas. Also available are four tennis courts and an arena. There is also a 440 track, softball field, and football field. Another facility available to Macdonald is the Thérèse Casgrain Centre belonging to John Abbott College CEGEP, which shares the campus. These facilities are much the same as ours with the exception of squash courts which are available to

## MACDONALD PROGRAMS

### INTERCOLLEGiate

Badminton (men)  
Broomball (men)  
Broomball (women)  
Cross-Country (co-ed)  
Rugby (men)  
Rugby (women)  
Woodsmen  
Woodswomen

### INTRAMURAL

#### Open League

Basketball (men)  
Broomball (men)  
Broomball (women)  
Soccer (men)  
Volleyball (co-ed)

#### Interclass

Badminton (co-ed)  
Basketball (co-ed)  
Broomball (co-ed)  
Cross-Country (co-ed)  
Football (men)  
Golf (men)  
Hockey (men)  
Innertube Waterpolo (co-ed)  
Swimming (co-ed)  
Softball (co-ed)  
Table Tennis (co-ed)  
Tennis (men)  
Volleyball (co-ed)  
Track & Field (co-ed)  
Woodsmen (co-ed)

### RECREATIONAL

Archery  
Badminton  
Basketball (women)  
Curling  
Figure Skating  
Hockey (women)  
Innertube Waterpolo  
Jogging Club  
Open Gym  
Outdoor Education  
Shinny Hockey  
Skating  
Staff Shinny  
Swimming  
Tennis  
Table Tennis  
Volleyball (men)  
Volleyball (co-ed)

### INSTRUCTIONAL

Aquatics — 6 programs  
Archery  
Badminton  
Ballroom Dance  
CPR  
Cross-Country Ski  
Figure Skating  
Fitness — 3 programs  
Horseback Riding  
Jazz Ballet  
Scuba  
Square Dance  
Squash-Racquets  
Tae Kwon Do  
Tennis  
Yoga



Macdonald at a small fee. So the student, during his or her leisure time, has the opportunity to use these facilities for whatever activity preferred whether it is to have a swim or play badminton.

#### STRUCTURAL

The instructional program is the largest in terms of activities offered. Our instructional staff has con-

tributed to the success of this program in offering a variety of activities which have caught the interest of our students. To give you an idea of what is offered, the following are some of the 20 plus programs available: aquatics, social dance, CPR, judo, several types of fitness, horseback riding, scuba, squash, square dance, and cross-country skiing.

## MACDONALD AND THE COMMUNITY

Macdonald, about 20 miles from Montreal, is located on the extreme west end of the Island at Ste. Anne de Bellevue. Ste. Annes may be reached by Canadian Pacific, by bus, by the Trans Canada Highway, and Highway 20. Dorval Airport is some 10 miles from Ste. Annes and has a bus service linking it to Mirabel Airport.

In Ste. Annes, a 10-15 minute walk from Macdonald, may be found most of the necessities and many of the luxuries that make for pleasant living. There are banks, churches, clothing stores, drug stores, specialty shops, and restaurants in the moderate to expensive price range. For those students who wish to live off-campus, there is a good range of accommodation from which to choose. As well, several shopping centres may be found on the west end of the Island.

Macdonald has leased several buildings and the surrounding campus to the West Island CEGEP John Abbott College. Some buildings and facilities such as the Residences and sports facilities are shared by both Mac and Jac. Brittain Hall, the men's residence, can accommodate 200 students as can Stewart Hall, the women's residence. At the present time, Laird Hall, a co-ed residence for Macdonald students only, can accommodate 85 students. The full use of Laird Hall is anticipated for 1982 when it should accommodate 275 students. Robertson Terrace apartments, 20 two-bedroom and 40 one-bedroom units, are rented to married students.

A complete food service located in Stewart Hall is available to all students. Complete meals or à la carte foods are available, and students can pay cash or choose an optional board plan. Other food services may be found in the student union building, the Centennial Centre.

## LIVESTOCK SHOW

For nearly 35 years, the Livestock Show has been a highlight in Macdonald student life. The Livestock Show is a mini fair organized by the show committee of the Livestock Club.

This showmanship competition is a friendly but competitive experience for all participants. Students may show sheep, swine, dairy or beef cattle. Ambitious students often choose more than one kind of animal. The show allows students to become acquainted with a very practical side of agriculture, while meeting and working with fellow students and staff.

From the day the animals are assigned, the fun and work begins — this requires barn clothes and good shoes as many trips over to the Farm are necessary! It is up to the student to train and prepare the animal to the best of his/her knowledge for the showdays. The barn staff and fellow participants lend a hand and are always ready with advice, but you are the boss when it comes to your animal!

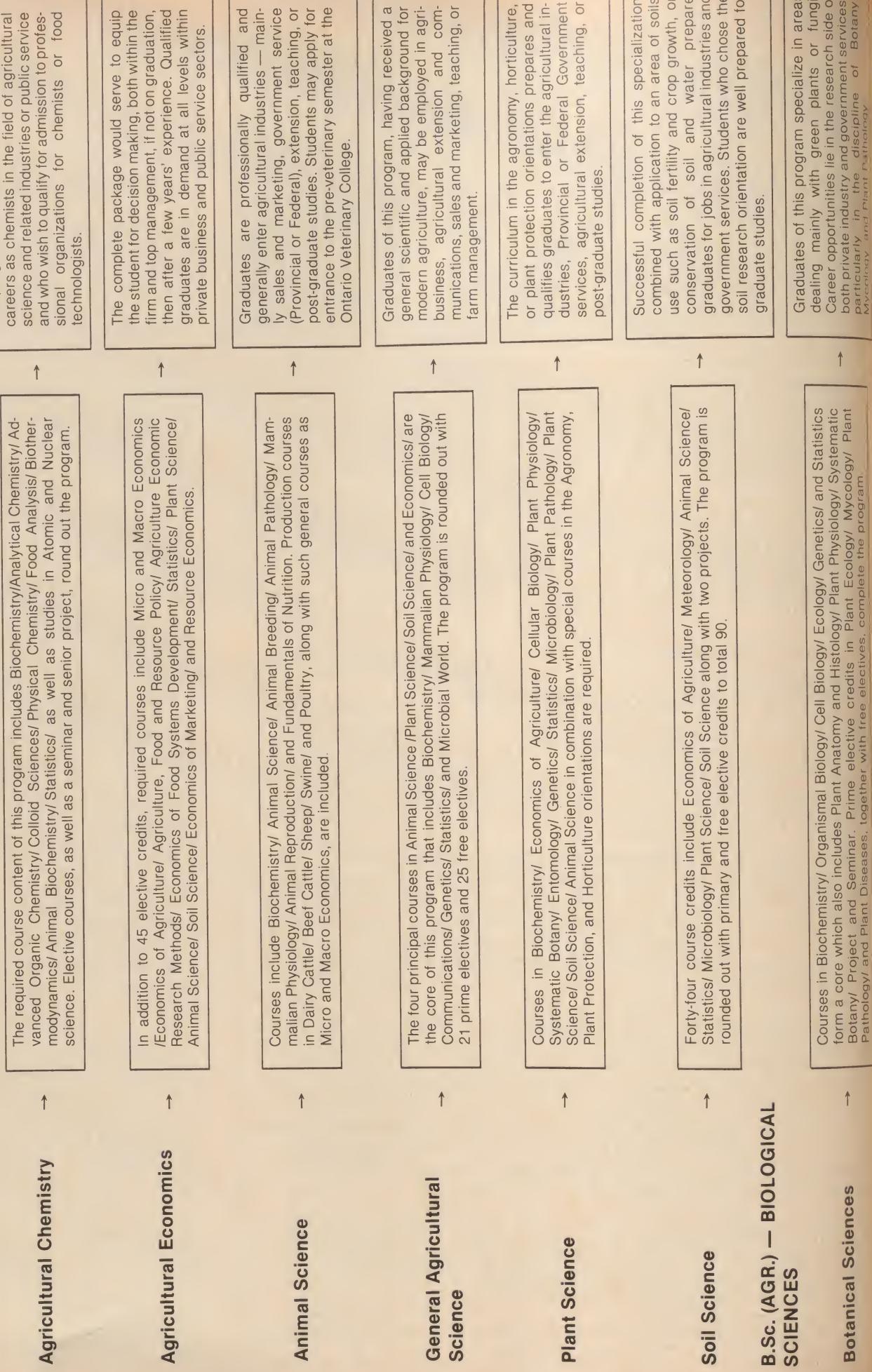
After many busy weeks of running over to the barn, show day arrives. All you can do is hope you have washed enough, clipped properly, and adequately trained that special animal.

As in any competition, there are winners and non winners in the show ring. However, every participant is a winner in the aspect that he/she has learned about a very practical aspect of agriculture and more importantly, has met and worked with so many people — and had fun along the way! After all, the special combination of learning, people, and fun is what Macdonald is all about!

Ann Louise Carsons  
B.Sc. (Agr.) '81

## COURSES

CAREERS



**Environmental Biology**

The two orientations in this program include courses in Hydrology/ Meteorology/ Systematic Botany/ Plant Ecology/ Ethology/ Systematic Zoology/ Soil Fauna Ecology/ Wildlife Ecology/ Physical Chemistry/ Biothermodynamics/ Digital Computing/ Statistics/ Principles of Soil Science/ Differential Equations/ and Radiation Biophysics.

**Microbiology**

Core courses shown in Botanical Science are augmented with Molecular Biology/ Frontiers in Microbiology/ The Microbial World Project/ Seminar/ Analytical Chemistry/ Microbial Ecology/ Molecular Genetics/ Immunology/ Virology/ Mycology/ Mechanisms of Pathogenicity and Biothermodynamics.

**Zoological Sciences**

Courses in Ethology/ Systematic Zoology/ Biology of Inland Waters/ Parasitology/ Microbial Ecology/ Insect Morphology/ Systematic Entomology/ Soil Fauna Ecology/ Apiculture/ Insect Development and Physiology/ and Terrestrial Animal Ecology are added to the core courses above to make up this program.

**B.Sc. (AGR.) — RENEWABLE RESOURCES DEVELOPMENT****Land Planning and Environmental Conservation**

This program has core course requirements of Economics/ Ecology/ Extension Methods/ Statistics/ Sociology/ Seminar/ Project/ Hydrology/ Meteorology/ Soil Science/ Geomorphology/ and Land Planning. The program is rounded out with 30 credits of primary elective courses and 15 credits of free electives.

**Community Resource Development**

Core courses in Economics/ Ecology/ Extension Methods/ Statistics/ Sociology/ Renewable Resources/ Project and Seminar are rounded out with courses in Hydrology/ Soil Science/ Economics/ Animal Science/ Digital Computing/ Plant Science/ Rural Sociology/ Soil Rating/ Forest Resources/ Pollution/ Recreation Resources Management/ and Conservation.

**Wildlife Resources**

The above core courses in addition to Systematic Botany/ Plant Ecology/ Fish and Wildlife Management/ Wildlife Ecology/ Hydrology/ Meteorology/ Soil Science and complemented with Resource Economics/ Animal Breeding/ Mammalian Physiology/ Ethology/ Parasitology/ Genetics/ Forest Resources/ and Silviculture.

**B.Sc. (AGR.) — AGRICULTURAL ENGINEERING**

Traditional engineering courses such as Mechanics/ Graphics/ Food Engineering/ Materials Science/ Statistics/ Digital Computing/ Differential Equations/ Electric Power/ Thermodynamics/ Heat Transfer/ Fluid Mechanics and Surveying are supplemented with Animal Science/ Plant Science/ and Soil Science courses.

This program aims at training scientists with a basic knowledge in Biology and a strong emphasis on Ecology. Graduates will be equipped to investigate the scientific aspects of the relationships between organisms and their environment and less oriented toward the political and sociological components of the eco-system.

This program serves to equip the graduate with a fundamental training in Microbiology. Career openings lie in government (Federal and Provincial) and industrial research laboratories, in the fields of pharmaceuticals, fermentation, and food processing.

By careful course selection, candidates may emphasize general zoology, pure and applied entomology, or soil and fresh water zoology. Careers lie in the fields of animal taxonomy, zoological field work, pest management and the like, in both government and industrial settings.

This program prepares the student to deal with problems of integrated natural resource management and environmental protection with the objective of making optimal use of resources under any given set of economic, social, and ecological conditions. Career opportunities are in the government as well as continued study at graduate level.

Career opportunities for graduates of this program lie mainly in the public sector at all levels (Municipal, Provincial and Federal). The interdisciplinary nature of this program equips students to evaluate community resources based on the physical, social, and economic factors involved.

Graduates have concentrated their careers on the biological resources, emphasizing the development of competence in wildlife ecology and other complementary disciplines. Job opportunities are found in government and the private sectors in resource planning, wildlife socio-economics, and wildlife resource evaluation. Graduates also go on to advanced studies.

Integration of the fundamental elements of engineering with the agricultural and biological sciences allows students to proceed to careers involving the design of systems that enhance the condition of the environment and improve food handling and processing methods. Private industry, government agencies, and graduate school find graduates among their numbers.

## SCHOOL OF FOOD SCIENCE

### B.Sc. (F.Sc.) — FOOD AND CONSUMER SCIENCES Consumer Services

This program includes Biochemistry/ Economics/ Statistics/ Food Fundamentals/ Textiles/ Microbiology/ Nutrition/ Consumer Studies/ Communications/ Economics of Marketing/ Sociology/ Digital Computing/ Contemporary Clothing/ Applied Design/ Fruit and Vegetable Processing/ Food Chemistry/ and Marketing.



### Dietetics

Work in this program includes four periods of practical internship as well as courses in Biochemistry/ Food Fundamentals/ Management, Theories and Practices/ Psychology/ Sociology/ Cellular Biology/ Microbiology/ Nutrition/ Mammalian Physiology/ Diet Therapy/ Community Nutrition/ and Personnel Management.



### Food Administration

This program includes Biochemistry/ Economics/ Food Fundamentals/ Management Theory and Practice/ Cellular Biology/ Statistics/ Microbiology/ Nutrition/ Digital Computing/ Psychology/ Personnel Management/ Economics of Marketing/ Food Service Systems Management and 27 elective course credits.



### Food Science

Courses include Biochemistry/ Economics/ Statistics/ Digital Computing/ Food Fundamentals/ Analytical Chemistry/ Microbiology/ Food Chemistry/ Food Engineering/ Chemistry of Food Products/ Fruit and Vegetable Processing/ Nutrition/ Food Processing / and a senior project.



### Nutrition

The 66 required credits include Biochemistry/ Statistics/ Digital Computing/ Analytical Chemistry/ Cellular Biology/ Microbiology/ Nutrition/ Mammalian Physiology/ Tracer Techniques/ Human Nutrition/ Food Chemistry/ Diet Therapy/ Food Analysis/ Applied Human Nutrition/ and a project.



### B. ED. — HOME ECONOMICS Students transfer for final year to the Faculty of Education on Montreal Campus.



This program provides a background to work with consumers or in consumer related areas. Specialization in food, business, or family resource management leads into consumer affairs positions with food producers, government agencies, and other food related industries, consumer protection agencies, promotional and PR positions in industry, banks and lending institutions, or teaching.



Graduates of this program have all the requirements for membership in both the Corporation of Professional Dietitians of Quebec and the Canadian Dietetic Association. Career opportunities are in health service agencies. The graduate may elect to specialize in one particular area of dietetic practice.



A wide choice of management careers exists in the Food Industry. Graduates may choose from opportunities in the food service areas of public restaurants, cafeterias, catering services, in-plant feeding, the armed services, institutional operations as well as in the related fields of sales and advertising.

The course selection in this program reflects the qualifications for membership in the professional association of Food Technologists. Graduates find employment in the areas of the food industries responsible for product quality control, food processing management, industrial research and development, or they may continue to graduate studies.



The graduate has a narrow but challenging and unlimited future. Normally, graduates continue on to further studies preparing for careers in research or as specialists in nutrition for government agencies, particularly those concerned with the maintenance of the good health of the society.



Graduates of this two-stage program (2 years at Macdonald and 1 year at the McGill Campus) are qualified as secondary school teachers in Quebec. Alternate career opportunities exist in the area of extension communications in home economics.



Successful completion of this program leads to a very sophisticated modern business. Graduates also go to sales and marketing in all phases of the agricultural industry, including animal production courses.

### DIPLOMA IN AGRICULTURE

This is a 24-month program which includes summer work segments. The courses studied include Economics/ Animal Nutrition and Breeding/ Climatology/ Plant Science/ Soil Science/ Farm Records/ Introduction to Farm Buildings/ Animal Anatomy and Physiology/ Horticulture/ Apiculture/ Extension Methods/ Microbiology/ Shop Practice/ as well as a range of Plant and Animal production courses.



# A GROWING FIELD

**Professor J. Gerols,  
Department of Renewable  
Sources and Chairperson,  
GEP and High School  
Liaison Committee**

In terms of seeking a career, food production is a growing field. Because of the increasing complexity of the product market sector and diversity of industries that are related, directly or indirectly, to the production and processing of our food, motivated graduates of the Faculty of Agriculture and the School of Food Science can look forward to a wide range of career orientations.

Members of the CEGEP and High School Liaison Committee, who visit a number of schools and colleges during the year in order to explain our programs to prospective students, often have to dispel some misconceptions. In many students' minds, Agriculture and Food science are still associated with farm and kitchen exclusively! Our committee members try to point out that although only 5 per cent are in business of growing food, another 35 per cent of the population at least, work in industries that are dependent on food production. Employers are as diversified as the jobs they offer: from government to processing plants to — banks! Indeed, a number of our graduates embark on a banking career; every major bank hires them as their expertise is needed, for one example, to approve loans to farmers.

The message about the diversity of employment opportunities is now clearer than in the letters we receive from past graduates, and I would like to quote from a few:

From a young woman who graduated in Agricultural Engineering: "Following my graduation in the spring of 1980, I commenced working at John Deere Welland works... my job consists of analyzing prototype machines built at Welland works (front end hydraulic loaders, manure spreaders, and rotary cutters to name a few) . . . It is a very interesting job, which always offers a challenge."

An Agriculture graduate of 1974 writes: "Since 1975, I have been employed by Agriculture Quebec . . . I work as an adviser to the vegetable growers of this region."

A 1975 graduate who majored in Animal Science tells us: "Although I had a job opportunity with the Ontario Department of Agriculture and Food, I decided to return to my family farm. I farm 500 acres with my father in eastern Ontario. We milk 70 registered Holstein Friesians and feed approximately 170 cattle altogether. Off the farm, I have done some part-time teaching . . . How has my degree helped my career? Mainly in the interpretation of publications relating to weed control, fertilizer programs, feeding programs, and understanding how new technology in these fields can be applied most effectively on our farm. It also helped me to have a better understanding of agricultural institutions in Canada and to develop a confident relationship with the agricultural industries in our area."

While some graduates enter the private sector upon leaving the Faculty and become quite successful (a case in point being the vice-president of one of the largest food concerns in this country who is a 1953 graduate), a number of them decide to continue studying in order to enter the fields of research and education, or to pursue a career in public service. Such is the case of the present Deputy Minister of Agriculture Canada, who received his Masters here in 1964. One 1976 Microbiology graduate is doing research at the University of Liege in Belgium; another one from 1963 heads the Research Department of a huge distillery in Montreal; while a third from 1977 is now president of her own food company.

The list of achievements is as long as it is encouraging for the present students, who still have to remember, of course, that they must rise to the challenge of a profession that means so much for the future of the human race. A high-ranking Federal Government official and former Macdonald student, who graduated in 1959, sums up the situation very well:

"A lot of people came from the farm but damn few returned. Those that did are pretty successful but so are those that went on to other things. Mac provided an excellent education for almost anything, but it especially provided a curious atmosphere that led me to attempt the unusual."

For more information on the Faculty of Agriculture and the School of Food Science, please write to:

**The Registrar,  
Box 287**

**Macdonald Campus of McGill University  
Ste. Anne de Bellevue, Que.  
H9X 1C0**

# The Family Farm



Published in the interests of the farmers of the province by the Quebec Department of Agriculture.



## To Facilitate Access to Agriculture

### INTEREST GRANTS TO ASPIRING FARMERS

The individuals considered as aspiring farmers by the Quebec Farm Credit Bureau will be able to benefit from the interest grants as do full time farmers. This measure which was announced recently by the Minister of Agriculture, Fisheries, and Food, Mr. Jean Garon, will come into force as of May 1.

While maintaining the basic principal which says that the budgets for the Ministry of Agriculture, Fisheries, and Food benefit primarily the true farmers, this measure will permit more flexibility in the operation of the Farm Credit Bureau toward individuals who truly wish to live from farming but who, during a certain period of time, must go outside of the farm enterprise to obtain part of their income.

### The Aspiring Farmers

In the eyes of the Quebec Farm Credit Bureau, an aspiring farmer is a person under 40 years of age who is engaged in farming with the intention of making it his main occupation within five years. This person can continue during that period to draw a major part of his income from a non agricultural position. The individual has access to farm credit but, until now, could not benefit from the interest grants offered to full time farmers.

With the current high interest rates, this restriction has, in effect, forced aspiring farmers to spend too much of their income in paying back the interest on their long-term farm

loans. They must quite often delay their investments which would permit them to make farming their main occupation and, therefore, benefit from the interest grants.

In order to break this vicious circle, the Farm Credit Bureau will, from now on, be able to offer aspiring farmers who obtain loans through the Bureau a grant which will be applicable to the costs of interests and calculated in the following way: 50 per cent of the difference between prime rate increased by one half per cent and an interest which would be of 12 per cent. For a prime rate of 18 per cent, the interest grant would be 3.25 per cent. It would increase or decrease one half per cent for each variation of one per cent in the prime rate.

In order to maintain an encouragement to go from the status of aspiring farmer to full time farmer, this grant is limited to a maximum period of five years.

The status of aspiring farmer constitutes an extremely important way of getting into an agricultural career, principally for those who do not have the advantage to take over from their parents.

The Minister also brought to people's attention the recent adoption of the regulations of the Quebec arable land bank which will soon be a measure to offer to individuals wishing to go into farming possibilities other than the pure and simple buying of land such as, for example, renting with option to buy or by long-term lease. Associated with such a measure are the modifications announced to the regulations of the Farm Credit Bureau which will have the effect of

making a farming career much more accessible.

### INTEREST GRANTS WILL NO LONGER BE AFFECTED BY THE INCOME OF THE SPOUSE

While facilitating the financing of many agricultural enterprises, a recent decision of the Council of Ministers will soon eliminate an important cause of discrimination between men and women in the relations of the Quebec Farm Credit Bureau.

The Minister of Agriculture, Fisheries, and Food of Quebec, Mr. Jean Garon, has, indeed, announced on March 13 last, that from May 1981, the income of the spouse will not be taken into account in the evaluation of a request for a loan with the Quebec Farm Credit Bureau.

At the moment, this income, if it is higher than \$14,000, takes away from the farmer the right to receive interest grants on farm loans. These grants will permit the lowering of the interest to two per cent on the first \$15,000, and to eight per cent on the next \$135,000, the real cost of a loan obtained from the Farm Credit Bureau. In a period of high interest rates, the loss of these grants can mean the difference between the profitability and non profitability of a farm enterprise.

The regulations of the Quebec Farm Credit Bureau have always taken into account the limit to the income of the spouse of the borrower obtainable by going outside the farming enterprise. These regulations were made to prevent people who had a very good income outside of farm

n benefiting from interest grants  
ch they did not need by placing  
farm in the name of their spouse  
whom farming would become  
arially the main occupation with all  
advantages that are derived  
n it.

confirming the necessity of  
venting such abuse, Mr. Garon  
that he was convinced that the  
of \$14,000 imposed in 1978  
s not correspond to reality any  
er, even if it represented a clear  
ovement in relation to the  
ious situation where the interest  
ts ceased to exist when the  
use earned more than \$7,000.

continuous progression in income  
have the effect of penalizing  
farming enterprises, par-  
erally those which are in the  
ounting phase and which must  
ment on a certain income from out-  
n. Furthermore, the rapid in-  
se in interest rates since 1979  
ngs about expenses which often  
ass the part which was assum-  
y the income of the spouse.  
tually, in certain cases, the spouse  
not participate in the cost of  
est on the loans, leaving the  
ower with reimbursements  
h are too great and which af-  
ounts the profitability of the enter-  
st for 3.  
n Cre

se people could, therefore, be  
ed to abandon a position in  
h they were interested because  
aking into account the expenses  
ed to this position and the  
lity of the interest resulted in  
decrease in the family income.

these different reasons, elimina-  
of any limit to the non farming  
me of the spouse in the  
olishment of the right to interest  
ts will permit that couples who  
y wish to develop a profitable  
ing enterprise will not be  
ilized without in any way chang-  
he priority which should be ac-  
ed to the true farmers.

## CROP INSURANCE FOR VEGETABLES

The Quebec Crop Insurance Board  
offers the growers an insurance pro-  
gram which covers the five following  
categories of vegetables: root crops,  
leafy crops, fruit-type vegetables,  
perennial vegetables, and  
miscellaneous vegetables.

The grower has the choice of insur-  
ing one or many of the categories  
mentioned above but he must insure  
all the species included in the same  
category if he produces them.  
However, if the area of one species  
reaches 10 hectares or more, he  
can insure this species individually.  
The minimum area is one half hectare  
per species. Only the varieties  
recommended and grown according  
to the specifications of C.P.V.Q.  
(Plant Production Council of Quebec)  
or accepted by the Quebec Crop In-  
surance Board are insurable.

## Protection

The insurance, while it is in force,  
protects against loss of yield at-  
tributed to the harmful action of the  
following natural elements: snow,  
hail, tornado, excessive rain,  
drought, frost, wild animals including  
birds, excessive winds, excessive  
humidity, and excessive heat.

It protects also against plant insects  
and diseases which become un-  
controllable due to the fact that they are  
present, according to the Board, in  
the form of an invasion or an  
epidemic. Flood and soil freezing  
are only for perennial vegetables  
under the condition that they were  
insured the previous year.

The duration of the protection goes  
from seeding or planting in the field  
until the end of harvest. One must  
request admission to the program  
before April 30 and pay the assess-  
ment requested. The insurance  
covers 80 per cent of the insurable  
value.

## Notification of Damage

The notification of damage must be  
done by writing immediately to allow  
the Board to make the necessary  
verification in the field. To be valid

any verbal notification must be con-  
firmed in writing by the grower. The  
notification of damage must indicate  
the crop which has been damaged,  
the area affected, and the probable  
cause of the loss. The last day for  
notification of damage by winter  
frost is June 1.

## Appraisal, Indemnity, and Compensation

The individual appraisal on the field  
constitutes the basis for all compen-  
sation. Abandoning a crop before  
maturity agreed to by the Board can  
be compensated upon presentation  
of relevant papers for the expenses  
encountered, not exceeding 80 per  
cent of the insured value. The  
urgent work is the work authorized  
by the Board to avoid a loss of yield.  
A compensation which could go as  
high as \$247 per hectare would be  
paid upon presentation of relevant  
papers.

## THE AGRICULTURAL MERIT COMPETITION

This year, the Agricultural Merit  
Competition will be held in Region 2,  
made up of the counties of Ar-  
thabaska, Bagot, Brome, Compton,  
Drummond, Iberville, Missisquoi,  
Nicolet, Richelieu, Richmond,  
Rouville, Shefford, Sherbrooke,  
Stanstead, Saint-Hyacinthe, Wolfe,  
and Yamaska.

The province is divided into five  
regions for the purposes of  
Agricultural Merit. A competition is  
organized each year in one of the  
regions so that the whole province  
is covered over a period of five  
years.

The most recent competition in the  
second region in 1976 had 70 farms  
on the list. The Gold Medal was  
given to the Micheret Farm, Saint-  
Zéphirin, Yamaska County. The  
enterprises of Jean-Paul Vermette  
and Sons of Saint-Simon, in Bagot  
County, and of Mr. Pierre Demers of  
Sainte-Cecile-de-Levrard, Nicolet  
County, received the first Silver and  
first Bronze Medals respectively.

Registration forms can be obtained  
in the local agricultural information  
offices.

## **HIST OF AGRICULTURAL FAIRS IN QUEBEC IN 1981**

Telephone Secretary

Class	Location	Date	Secretary
Agricultural Society			
County			
Abitibi	Amos Lachute	20-23 June 17-21	Mrs. Gertrude Darveau, Ste. Gertrude, J0Y 2L0 Mrs. Edna Hadley, Box 402, Lachute, J8H 3X2
A	Brome	Sept. 05-07	F. A. Smith, Box 74, Brome, J0E 1K0
A	Chicoutimi	June 15-21	Louis Boucher, Box 622, Chicoutimi, G7H 5B1
A	Compton	July 30-02	Mrs. Nicole Couture, R.R. 1, Compton, J0B 1L0
A	Huntingdon	Aug. 06-08	Mrs. Debra Rankin, Box 956, Huntingdon, J0S 1H0
B		Aug. 04-09	Jacques Bérubé, Rte. 230 West, St. Pascal, G0L 3Y0
B	St. Pascal	Aug. 05-09	Raynald Champagne, St. Sylvestre, G0S 3C0
A	St. Agapit	July 22-26	Bernard Saint-Onge, 4 boul. Lévesque, Bedford, J0J 1A0
A	Bedford	July 29-02	Mrs. Julieanne Deschambault, Box 404, Thurso, J0X 3B0
A	Papineauville	July 22-26	Mrs. Yolande Hardy, 53 St. François St. East, Cap-Santé, G0A 1L0
A	Deschambault	July 10-14	Luc-A. Forcier, 107 Principale St., Yamaska, J0G 1W0
A	Sorel	June 04-06	Robert W. Simpson, R.R. 1, Melbourne, J0B 2B0
A	Richmond	Sept. 28-02	Mrs. Thérèse Malenfant, Isle-Verte, G0L 1K0
A	Isle-Verte	July 09-12	Mrs. Marielle Guérin, Box 190, Rougemont, J0L 1M0
A	Rougemont	Sept. 04-07	Paul Proulx, 1112 Saint-Férel Rd., Les Cédres, J0P 1L0
A	Côteau-du-Lac	Aug. 27-30	Turner Hunter, R.R. 6, Coaticook, J1A 2S5
A	Ayer's Cliff	July 17-19	Mrs. Monique Pigeon, 447, rang de la Beause, Calixa-Lavallée, J0L 1A0
A	Calixa-Lavallée		583-6470
District			
A	Arthabaska	Aug. 10-16	Gérard Drouin, Parc de l'exposition, Victoriaville G6P 4K1
A	Drummond	June 16-21	Germain Lefebvre, 69, Pays Brûlé, Baieville, Yamaska, J0G 1A0
A	Joliette	July 22-26	Mrs. Francine Sylvestre, Box 1228, Berthierville, J0K 1A0
A	La Mauricie	July 15-19	Mrs. Micheline Turcot, 430, Grande-Rivière, St. Barnabé Nord, G0Y 2K0
A	Mégantic	Aug. 05-09	Emile Hardoin, 1200 Lamonde St., Thetford Mines, G6G 4L1
A	Montmagny	Aug. 17-23	Roland Gaumond, 12 Fournier Ave., Montmagny, G5V 2X7
A	Pontiac	Sept. 04-07	Everett McDowell, Box 449, Shawville, J0X 2Y0
A	Rimouski	Aug. 11-16	Romuald St. Pierre, Box 486, R.R. 2, Rimouski, G5L 7B5
A	St. Hyacinthe	July 24-02	Richard, Robert, 740 Sacré-Cœur St., St. Hyacinthe, J2S 1V1
Independent Fairs			
Ormskirt	Ormskirt	June 10-14	Harold L. McCaig, Box 239, Ormskirk, J0S 1K0
Expo-Québec (Provincial)	Québec	Aug. 27-07	Paul-Emile Maheux, Parc de l'exposition, 2205 avenue du Colisée, Québec, GIL 4W7
Royal Agricultural Winter Fair	Toronto	Nov. 12-21	John A. Willey, Toronto Coliseum, Toronto, M6K 3C3
Sherbrooke			
St. Félicien		Aug. 14-23	Miss Eileen Morgan, 400 Parc St., Sherbrooke, J1E 2J9
St. Honoré		Aug. 18-23	Simon Bergeron, 1235, rang 3, St. Prime, G0W 2W0
St. Sébastien		Aug. 19-23	Eugène Fortin, St. Honore de Shealey, Beacons, G0M 1V0
Trois-Rivières		Aug. 05-09	Ghislain Giroux, St. Sébastien, G0Y 1M0
New Richmond		July 31-09	Jean Alarie, Box 968, Trois Rivières, G9A 5K2
Expo Industrial and			Jean-Marie Jobin, Box 9, Caps-Noirs, G0C 1C0

# This Month with the

# QWI

## 90th Anniversary of Dunham Women's Institute

Where was the first meeting of the Women's Institute in Quebec? The answer: Dunham, January 27, 1911!

On this day, but 70 years later, Dunham members held an Open House in the afternoon to celebrate the founding of the branch. The president, Mrs. Barbara Harvey, extended a warm welcome to approximately 60 members and friends and said how proud she was to be President today of this branch.

The program started with the singing of the Institute's Ode and salute to the flag. Mrs. Harvey spoke of her early recollections of Institute work as a child in school when the ladies served hot lunches, than as a young girl attending a meeting in Dunham and, being so impressed, she later joined the Institute.

Mary Stewart Collect was seated in unison and a moment of silence observed for those gone from our midst. Then the Hymn of Nations was sung.

Secretary, Mrs. R. Martin, read orders of congratulations from Mrs. Kilgour, Mrs. S. Washer, Mrs. D. Scadden, from Bromptonville, Verveland, Stanbridge East and Forde W.I.'s, and last but not least from Miss Edna Smith.

The executive and the conveners were introduced by Mrs. Harvey: 1st Vice-Pres.: Mrs. Jane Greig; 2nd Vice-Pres.: Mrs. E. A. Staton; Secretary: Mrs. R. Martin; Treasurer: Mrs. Pearle Yates; Conveners: Agriculture: Mrs. Ruby Sherrer; Citizenship: Mrs. Clarence Martin; Education: Mrs. D. Paterson; Sunshine: Mrs. R. Selby; Publicity: Mrs.

D. Clark; Welfare and Health: Mrs. Marian Perkins.

Mrs. Selby and Mrs. Sherrer were congratulated for decorating; Mrs. C. Martin read a short resumé of the Quebec Women's Institute history closing with the preliminary minutes of January 1911 when Mrs. George Beach called a meeting. It was decided to ask Mrs. Muldoon, from Macdonald College, to come and help organize. Mrs. Margaret Ellis read the minutes of the first meeting when 20 joined and 31 were later on the role.

Mrs. Ella Brown of Cowansville, the daughter of the founder Mrs. Beach, was welcomed.

Mrs. Esther Mason, the President of Missisquoi County, Mrs. Reda Lewis, Area Vice-President of FWIC, Mrs. Ola Carr, the President of Brome County, Mrs. Lilian Miltimore, Mrs. Owens, and Mrs. Day of Sutton brought personal congratulations.

A scrapbook, started in 1911, was on display.

The WI Grace brought the program to a close. The rest of the afternoon was spent socializing and partaking of a delicious lunch of sandwiches, squares, pickles, olives and celery. The tea table attractively decorated with a bowl of flowers in WI colours and silver tea services, was presided over by Mrs. Margaret Ellis and Mrs. C. Martin. One side table held the anniversary cake made and decorated by Mrs. Pearle Yates; this was in the form of a book, decorations in blue and gold, tall candles stood on each side. Mrs. Harvey and Mrs. Brown made the initial cut and it was served to everyone.

A very pleasant afternoon was enjoyed by all.

**Mary Harvey,  
Convener for Publicity  
Missisquoi County.**

## 95th Birthday

Mrs. Cameron E. Dow, O.B.E., Past President of QWI and FWIC, celebrated her 95th birthday on February 28. Mrs. Dow was delighted to receive the numerous guests who came to extend birthday greetings on her special day and graciously thanked everyone who brought cards and gifts. Mrs. Dow still attends meetings on occasion at the Port Daniel WI and on March 4, 1981, she was present at the annual meeting of the Marcil WI, which was held in the home of her daughter where she now resides. Mrs. Dow has three grandchildren and 11 great-grandchildren.

## QWI Annual Convention

The QWI Annual Convention will be held at Macdonald on May 26, 27, and 28. By now, branches will have chosen their delegates, and it is hoped that there will be a greater than ever turnout to celebrate the QWI's 70th Anniversary. Advance orders from branches could be sent in with delegates for the book "QWI Pioneers" which should be on sale during Convention. A firm price has not as yet been reached, but copies will not be more than \$5 each. To commemorate the 70th Anniversary, Miss Hilda Graham has had QWI song books printed, and they will be available at Convention for \$1 each. Send in orders with your delegates and don't forget that QWI spoons are still available. A tour of the College grounds and other highlights will, we hope, make this a very special Convention.

## Sixtieth Anniversary for Inverness

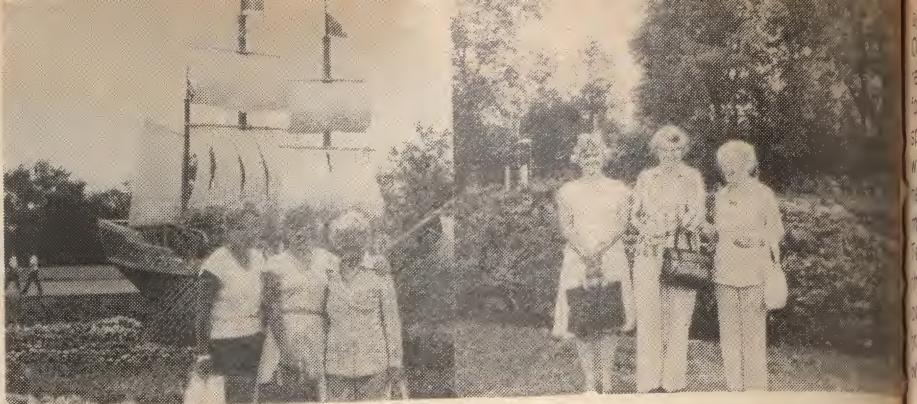
At a meeting of ladies held in the high school in Inverness, on October 28, 1920, it was decided, after some consideration, to organize a branch of the Women's Institute. Miss Buzzell, who chaired the meeting, explained the function of the Women's Institute and said aid might be available from Macdonald College in the form of a visit from a demonstrator.

The first meeting took place at the home of the president, Mrs. W. F. Smith, and ladies became members. After considerable discussion as to the work to be adopted by the branch, the first motion was passed as follows: "It was moved by Mrs. Robinson and seconded by Mrs. Murchie that we do sewing, and hold a sale of work and a tea in aid of the skating rink fund." The second motion at this meeting was: "That the Institute meet the first Friday of the month at half-past two." How long did these meetings last? A motion at the December meeting reads as follows: "Proposed by Mrs. Robinson and seconded by Mrs. McKenzie that our meetings adjourn at four o'clock."

A far cry, indeed, from our meetings 60 years later! If we meet at 2 o'clock, we leave for home between five and six-thirty. We, of course, have a lunch, but maybe we don't stick to business as well as the first members did!

Wool certainly must have been cheap in 1920 as, from a list in the Secretary's book the following prices for their sales were shown: 6 aprons at 40 cents each, 1 crochet bag at 35 cents, and 1 pair of knitted socks for 40 cents.

Through the years many more women became interested in the Institute and by 1932 there were 35 members. As English people began to leave the area, numbers dwindled and now we are only nine, but still going strong! To celebrate our sixtieth anniversary, members with husbands or friends (we also included our faithful auditors) drove to Princeville to the Tur-lu-tu-tu



Hemmingford WI members at the Floralia. In the first photo: Mrs. R. Schimmelpfennig, Mrs. Grace McGregor, and Mrs. Florence Gartshore; in the second: Mrs. McGregor, Mrs. J. Robertson, and Mrs. Gartshore.

Restaurant where we enjoyed a banquet and a social three hours. When a former resident of Inverness heard of the anniversary he phoned the Restaurant and requested that wine for the toasts be served at his expense! This was much appreciated. There was a toast to the Queen and another to the two members who joined back in 1932. This was followed by a moment's silence in memory of all the deceased members. Only one pioneer is still living and still going strong! Her name is Fedora Beattie of the Lennoxville branch.

After sharing a piece of anniversary cake, made and decorated by Mrs. Bernard Robinson, members headed for home carrying with us a feeling of pride that the Inverness Women's Institute has been able to survive for 60 years.

### Ruth Graham Publicity Convener

#### Dear Members,

During the November Semi Annual Board Meeting held at the Constellation Hotel in Montreal, it was concluded that in the future I would get from the County Conveners a combined report, only every three months, of the branches' monthly reports. This will avoid the feeling that you have to wait months until your report is published. I should receive your reports as follows: end of February includes the months December, January and February; end of May for the months of March, April, and May; end of August for the months June, July, and August

and end of November for the months of September, October, and November. I have the feeling we find in the combined commentaries more concise news as is now the case with the monthly reports, for there will be less "filler" news as sometimes happens when no major events had taken place during that one month. News should be of value and an asset for the members of a branches. Please be so kind and keep this in mind with your upcoming reports. Here are the extracts from the reports of the months January and February 1981:

To make somebody a little happy Valentine's Day was the objective of the **Frontier** ladies. Their motto for this month was "Happiness is contagious — be a carrier," so they made fudge and distributed it to residents in the Manoir in St. Philippe. Health and Welfare Convener told the audience where wheel chairs and other equipment for sick or handicapped people can be obtained; the Publicity Convener spoke about the 2.3 million disabled people in Canada. Many of them need our help and understanding. Mrs. Grace Morrow showed slides and told of her visit to South Africa a country that has beautiful cities and sceneries that compare with the best in our country. At the February meeting it was suggested to bring something extra for the Mother's Day Tea and Bazaar. Guest speaker Mr. Larocque, who has been blind for the last six years, stressed the urgency of seeing a doctor at the first sign of eye trouble, so as to help to prevent blindness. Accompanying Mr. Larocque was Miss Barbara Roy (who has been blind since

ge six) and her Seeing Eye dog, Opal. She related that she had received her education at a school for the blind in Montreal and then spent five weeks in New Jersey, where she learned how to work with her dog. Opal gives her an immeasurable sense of independence. To aid the blind, we should help them to become independent. We could also will our eyes for transplants. Blind people do not want pity.

**Arundel's** meeting, Thelma Good, the Convener for Agriculture, spoke about the roll of farm wives. They are not only housewives and others, but also accountants, looking after the farm books, as well as working in the barns, or in fields as extra farm hands. Publicity Convener, Pauline Craig, pointed out Adult Education courses which are offered in great diversity. The meeting approved a large donation to a family who lost everything in a fire. They also made a donation to the Adelaide Hoodless Home in memory of a late Charter Member, and another to the Quebec Society Crippled Children. The demonstration of the evening was Indian cooking put on by Elizabeth Hutchison, a member who lived for several years in India. Terri Thorntoft, the Citizenship Convener, had recently visited the Adelaide Hoodless and the Erland Lee Homes and was impressed with the way in which these two homesteads have been preserved. She was interested to note that a barn is now a showplace for quilts made by branches from across Canada. And in recent, a "Quilting Bee" was in progress at the time of her visit.

**Townsburg's** conveners' reports indicated there is a shortage in hay. It was also mentioned that a computer has been developed to detect heart abnormalities far easier than through present systems. On another note, they urged that the Canadian Government not resume diplomatic relations with Iran while the present regime is in power.

Good call of **Upper Lachute East** was answered by naming an old time remedy. The members called mustard plasters, sulphur, molasses, cod liver oil, and many uses for onions. An article was read on an unusual method of raising funds. The president of a



County President Mrs. Douglas Mackay presenting (above) Mrs. Victor Bell with a Life Membership pin, assisted by East Clifton President Mrs. Ronald Bell. Below: Mrs. MacKay presents Life Membership pins to Mrs. Alice Twyman and Mrs. Helen Robinson, assisted by Sawyerville President Mrs. Dorothy Loveland.



FWI group in England supplied pumpkin seeds to 27 members of the group to grow in their own gardens. Other members sponsored the pumpkins by promising to pay a certain sum per pound in weight when the fruit was picked. When last heard from, the ladies were all recovering from too much pumpkin pie.

**Jerusalem-Bethany's** ladies invited Mr. and Mrs. George Connelly who have travelled extensively, and are always happy to share these experiences with a group such as theirs. The pictures and commentary were on the "Passion Play" which is held every 10 years in a small town located in the Bavarian Alps. The performers are always people from this town. The play had its beginning dating back to the 1600s when a dreadful plague took the lives of scores of people. The people in this town vowed if they were spared this death they would act the biblical story from the birth of Christ to His Betrayal and Crucifixion. This play is acted on an open stage; however, the audience is "under cover". Although the language spoken is German, booklets can be purchased in the main languages so one can easily follow the drama.

This play is acted with great simplicity and reverence and has become a great tourist attraction. Following this, pictures were also shown on the cruise this couple took on the Danube River.

**Pioneer's** non-grandmothers entertained the grandmothers. Readings on the subject were given by Mrs. A. Oswald, Mrs. R. Hyde, Mrs. A. Thompson, and Mrs. S. Armstrong. Proud grandmothers passed around pictures of grandchildren. Mrs. C. Matthews conducted a Valentine contest which was won by Mrs. G. Rodger and Mrs. K. McCaig.

**Marcil** reported that it will cater for approximately 300 people at the Annual Dinner Meeting of the local Agriculture Society. The branch received a certificate of appreciation from UNICEF for the Hallowe'en Shell-Out contribution. Eight sewing kits for Somalia had been completed and a donation of \$50 was made to the Soup Project at the Hopetown Elementary School. Marcil is one of the seven branches of Bonaventure County which is situated at the north shore of Chaleur Bay on the Gaspé Peninsula. The branches are separated by great distances and during the winter time, it is a heroic deed to come to the monthly meeting. At the February Dinner Meeting 18 members and seven guests met in New Carlisle — the temperature was minus 28° Celsius.

**Matapedia** presented their former treasurer with a farewell gift.

**Restigouche** branch presented a home member with a motto pin and two other ladies with pins for 25-years membership.

**East Angus** mentioned in their meeting that it would be worthwhile to make a feature film of the life of Terry Fox. They also noted the 25th Anniversary of a home for aged W.I. members in Woodstock, N.B., the only one of its kind in Canada.

**East Clifton's** members were very busy and tied two quilts together at their meetings. They also sent sewing kits to Somalia. Mrs. Victor Bell was presented with a Life Membership pin.

**Sawyerville's** motto: The essentials of life are — "Something to do, something to love, and something to

hope for." Mrs. Helen Robinson and Mrs. Alice Twyman were presented Life Membership pins by County President Mabel MacKay.

**Hemmingford** catered for a Senior Citizen's dinner and saw two films. The first one, "In Praise of Hands", portrayed handicrafts from many parts of the world: pottery, clay figures, weaving, tie dying, stone carving, metalwork, drums, clothing, done without complicated machinery. The second film was on "Jack Rabbit Johannsen" who resides in the Laurentians promotes cross-country skiing, and was still very active in his late nineties when the film was made. There were also some very helpful spring hints: to help the birds at nesting time, collect lint from dryers, hair from hairbrushes, thread from sewing, wool from handicraft and place on bushes for the birds. — To preserve the lovely flowers you bring into the house, spray them, in upward directions, with hair spray.

**Howick's** ladies played a Valentine's game where two decorative parcels were passed around while all sang "Coming Round the Mountain." As the singing stopped, the two ladies left holding the parcels were announced the winners and were pleased to keep the embroidered and macramé articles inside. **Aubrey-Riverfield** held an oral quiz on Energy to learn more of energy saving and of oil production. **Franklin** made a donation of dolls and trucks to the Montreal Children's Hospital. **Huntingdon**

had as guest speaker Joan Lynch, who spoke on Remotivation Therapy — a group method that promotes rehabilitation of elderly people. She spoke about working as a volunteer with groups in the Douglas and Griffith Hospitals of Montreal. This method, developed by Mrs. Hoskin Smith of the US, induces people to be social once more through weekly sessions. She told how this could be accomplished by slowly and skillfully getting the patients more interested in feeling that life is still worthwhile for them.

The Health and Welfare Convener of **Wright** branch reported about a lady who, in the past few years, has become a victim of M.S., and told of how she has overcome this handicap. The woman is a niece of one of their members who has been a polio victim since childhood, and

who did not let this handicap interfere with her having a very normal life either. Roll call asked how to conserve energy. A contest in farm implements was won by Thelma Gallagher, a city girl!

**Aylmer East's** Agriculture Convener read an article "Bananas are fruit or vegetable?"; Citizenship and Education convener read a commentary on "International Year of the Handicapped" and "Rights of Patients", while the Welfare and Health convener brought forward the topic, "A lowly Pill's Aspiration". Home Economics reported about "Butter or Margarine?" and read a poem "How Are You?". Mrs. Wideman distributed booklets from the Ministry of Agriculture and Food entitled "Your Money's Worth in Food."



**Douglastown's** Anna Campbell was presented with an Abbie Pritchard throw by the Gaspe County President Mrs. Oscar Dion.

The motto for **Inverness** was: "A rumor is like a cheque — never endorse it until you are sure it is genuine." **Kinnear's Mills** program asked that each member bring in something that reminded her of her childhood. This call to the past was answered by all ladies. The Agriculture convener told of a boy in China who goes to school but one day of each week is spent working in the fields.

**Dunham** collected knitted articles for CanSave and prepared some bags with sewing items for Somalia. Publicity Convener Dorothy Clark

gave a report from the History of W.I. "The first 50 Years". As the oldest branch in Quebec, they celebrated their 70th Anniversary January.

**Fordyce W.I.** will celebrate their 35th Anniversary in November 1981 and will start soon with setting up their program. They donated money to the Memorial Fund, to the Hoodless Home, the Douglas Hospital, and sent 14 sewing kits to Somalia. Their motto is very worth of consideration: "A woman who drives from the back seat of a car no worse than a man who cooks from the dinner table." It was decided to support the Cowansville Town Council at the Provincial Summer Games 1983.

Mrs. Russel Biggs of **Stanbridge East** held a contest on the Q.W.I. handbook, particularly the role and duties of the executives and the manner of conducting a business meeting. A good knowledge of proper procedure by all the members will help to insure smooth and interesting WI meetings. Mrs. Briggs is to become the next president, so the review of roles and procedures will prepare her very well for her work. Outgoing President Mrs. Clifford Rhicard's project for the past three years was a pictorial history Stanbridge East WI. Many pictures were collected. This work was presented and will be passed around. Mrs. Arthur Gage was presented with an Abbie-Pritchard throw by Mrs. Ruby Moore.

**Cowansville** ladies celebrated the 97th birthday of their member Miss Eva Symons with a beautiful cake. Topics of the conveners: Agriculture — Tomatoes are nutritious; Education — Symposium on Education to take place in Cowansville; Home Economics — Fuel from potato peels is closer than you think; Welfare and Health — Help for the elderly.

In the next issue you will read what the counties of Montcalm to Stanstead have to report. I hope all of you will enjoy this beautiful spring, and I thank you again for your most co-operative work! With best regards, I am

**Ruth von Brentani**  
QWI Publicity Convener.

## **RESEARCH . . . RESEARCH . . . RESEARCH . . .**

The Macdonald Campus houses a close-knit community of students and staff dedicated to excellence in research in agricultural and food sciences.

The Macdonald Campus of McGill University is home not only to the Faculty of Agriculture and School of Food Science, but also to the Lyman Entomological Museum and Research Laboratory, the Morgan Arboretum, the Raptor Research Centre, as well as the Brace Research Institute (associated with the Faculty of Engineering), the Institute of Parasitology and the McGill Radar Weather Observatory (associated with the Faculty of Science).

Within Macdonald, a wide range of research activities is found — agricultural chemistry and physics, agricultural engineering, animal science (including nutrition, animal genetics, and animal physiology), entomology, microbiology, plant science (including agronomy, horticulture, and plant protection), renewable resources (including soil science, wildlife biology, and forest resources), food science and agricultural economics. In cooperation with associates on the campus, wind and solar energy, radar-studies of rainfall effects, and aspects of parasitology are studied.

In the Faculty of Agriculture and School of Food Science over 80 academic staff are on the campus supervising about 120 graduate students at the M.Sc. level and 60 at the Ph.D. level. There are numerous post-doctorates and research assistants who also contribute to our total research effort.

The costs of this research are becoming increasingly difficult to meet, although over \$2 million in research grants and research contracts were received by the Faculty in 1979-80. The Federal Government provided over \$1 million in funding, through Agriculture Canada, the National Science and Engineering Research Council (NSERC), Environment Canada and other agencies. The Quebec Government provided over \$500,000 mostly through the Department of Agriculture. Industrial research and contracts for overseas research provided the balance of the research funds.

The major research laboratories are housed in the recently built Macdonald-Stewart Building and the Raymond Ledingham Building where the use of modern research equipment is directed toward development of new agricultural products, studies of food additives, assessment of crop varieties, production of animal feed from waste products, blackbird damage control in corn, integrated pest control, municipal sludge disposal, and energy-cost impacts on agricultural production to name a few. Excellent support is provided by the Macdonald Library, with a collection of 80,000 books and journals and 17,000 government documents.

Research would be severely hampered without the Macdonald College Research Farm which occupies about 100 hectares of varied soil terrain and contains a series of barns and research laboratories which provide facilities for applied research. The Emile A. Lods Agronomy Research Centre, and adjacent weather station, serve as a focus for much of the applied agronomy and plant protection work, as well as micro-climate studies.

Problems of physiology and reproduction growth are studied in both domestic and wild birds at either the Poultry Unit or the Raptor Research Centre. At the Morgan Arboretum, 240 hectares of natural woodlands, ecological reserves, wildlife observation areas, and plantations of a variety of species provide a unique location for many environmental, conservation, or recreational studies.

A major problem faced by most researchers at Macdonald is a lack of graduate students. More research-trained people will be required over the next 5 to 10 years. We may not have enough trained people to carry out the many projects that await us in agricultural research.

Where are we going from here? Hopefully, wherever our imagination leads us. Genetic engineering is on the horizon. Will we exploit it? Better agricultural crops and products await to be developed. New nutritional methods are desperately needed. Food production must be increased, but at minimum cost to our environment — improved pest control, better fertilizer use, new tillage methods, energy use conservation must all be tackled. But it cannot be done alone. We need to have help in finding out the important problems facing the farmer and help in getting research funding. With good, sound research in agriculture we will be able to meet the many challenges of the 1980s and beyond.

**A. F. Mackenzie**  
**Associate Dean, Research.**

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